[- whereby the access is secured by means of] entering, by said user, an unambiguous digit sequence [(PIN)] in a [the] terminal device [(KE), which], said digit sequence [(PIN) is] being only known to said [the] user of said [the] service[,];

5   encoding said digit sequence and an additional variable parameter using an encoding function which thus produces a function calculation result;

transparently transmitting said function calculation result containing said digital sequence [- and this digit sequence], using [by means of] multi-frequency dial methods, [is transparently transmitted] in said [the] communication network

10   up to a central entity [instance (SCP) and is evaluated there,]; and

evaluating said transmitted digit sequence in said central entity and permitting said user to use said service if said evaluation is positive and if a previously transmitted said digit sequence has not been received within a fixed time interval.

15   [- the digit sequence is supplemented by at least one further, variable parameter prior to the transmission by the communication network and

- is encoded by means of a suitable encoding function (f), and

- the result of this function calculation (rpPIN) is transmitted to the central instance and

20   - the user can utilize the service when the access code has not yet been received within a fixed time interval.]

2. (Amended) A method [Method] according to [patent] claim 1, wherein said

[characterized in that]

25   [a] variable parameter is a selected from the group consisting of a time specification, [or] a random number, and a number [or is] taken from a number sequence that can be calculated.

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WHAT IS CLAIMED
~~Patent claims~~
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SUB A177

1. Method for securing the access to a service in an intelligent telecommunication network (IN),

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- whereby the access is secured by means of entering an unambiguous digit sequence (PIN) in the terminal device (KE), which digit sequence (PIN) is only known to the user of the service,
- and this digit sequence, by means of multi-frequency dial methods, is transparently transmitted in the communication network up to a central instance (SCP) and is

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evaluated there, and
- the digit sequence is supplemented by at least one further, variable parameter prior to the transmission by the communication network and
- is encoded by means of a suitable encoding function (f), and
- the result of this function calculation (rpPIN) is transmitted to the central instance

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and
- the user can utilize the service when the access code has not yet been received within a fixed time interval.

2. Method according to patent claim 1,

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characterized in that
a variable parameter is a time specification or a random number or is taken from a number sequence that can be calculated.

3. Method according to one of the previous patent claims,

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characterized in that
the encoding function is a single-step method or a two-step method according to norm ITU X.509, or is a method according to RFC 1938 or is a hash function.